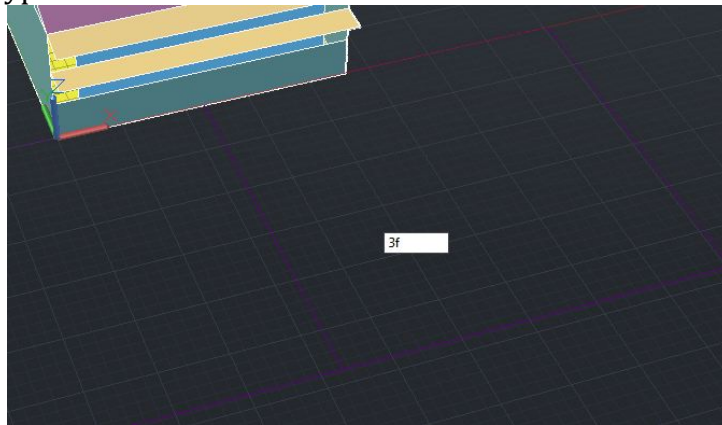


How to create a model for DaySim

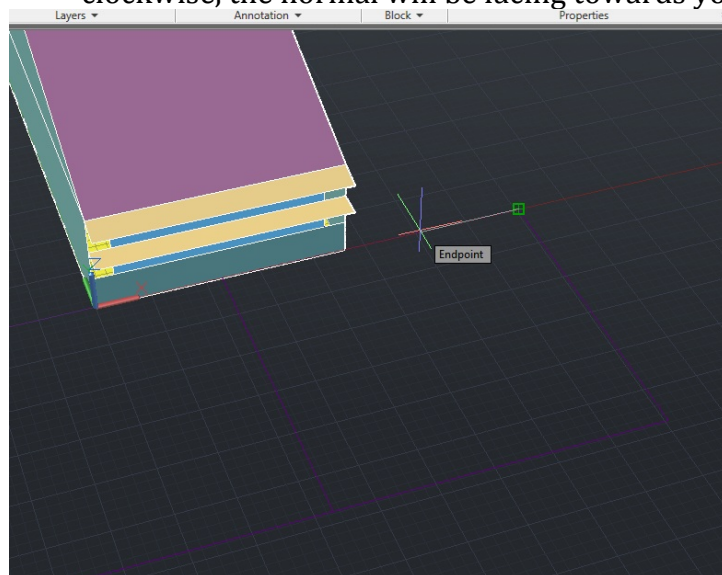
A few tips on creating an accurate DaySim model in 3D Auto CAD

When creating a model to put into DaySim to do a solar analysis, there are a few things that will and will not work.

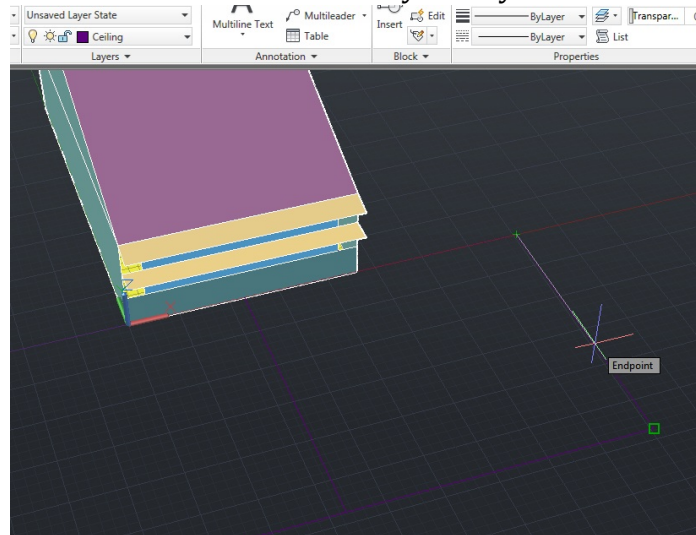
- 1) Taking your model from Revit WILL NOT work
- 2) Taking your model from Revit, saving it as an AutoCAD, and then putting it into DaySim WILL NOT work
- 3) You must remake a model in 3D AutoCAD made completely out of 3D faces (regions and line thickness will not work).
 - a. Type 3f into the command box in order to create a 3D face



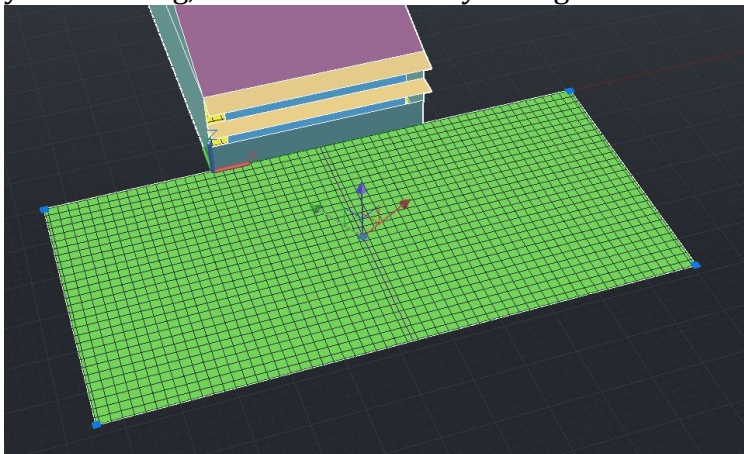
- b. The normals must be facing the correct way in order for them to correctly reflect the light.
 - i. If you create the 3D face by connecting the points counter clockwise, the normal will be facing towards you



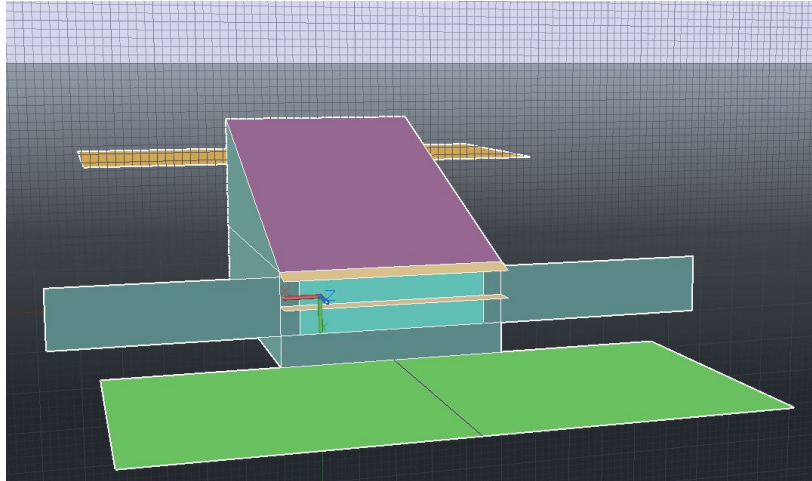
- ii. If you create the 3D face by connecting the points clockwise, the normal will face away from you.



- 4) The more accurate and realistic your building geometry, the more accurate your results will be.
- a. If you are creating an overhang, or light shelf it must extend both ways past the window.
 - b. The ground outside of the window must be modeled and extend past your building, because realistically the light will reflect off of it.



- c. Window normal faces out and to extend walls and roofs that will reflect light.



- d. If you want to include shades or mullions put that in the geometry as well.
- 5) save as .dxf
- 6) To make it into a .rad file create a .bat (windows batch file) file in notepad (i.e. dxf2rad.exe yourfilename.dxf > whatyouwantittobecalled.rad) and then use the dxf2rad application